Abstract

Disclosed is a method of producing a compound with β1-4 linkage which contains the lactosamine structure involving reacting at least one donor substance GalβOR where R is an organic group, and at least one acceptor substance which is a glucopyranosamino derivative having the formula GlcNR''-R''', wherein NR'' is an azido, 2-N-acetyl-, 2-N-phtalimido, or an organic group bound to the 2-N-group of glucosamine, wherein R''' is a glycosidically bound fluoro or is an O-, C-, N- or S-glycosidically bound aliphatic or aromatic compound, with the proviso that if NR'' is NHAc then R''' is not OH and if NR'' is not NHAc then R''' may be OH, in the presence of *Bullera singularis* or an E.C. group 3.2 glycosidase of essentially the same structure as an E.C. Group 3.2 glycosidase obtained from *Bullera singularis* to form the lactosamine derivative; and optionally isolating the compound with β1-4 linkage which contains the lactosamine structure.